Original/Duplicate/Triplicate
CONTRACT CERTIFICATE

No. **Second &Part** (For Other Works) Date.....2018

Division: **Byatarayanapura** Sub-Division: **Kodigehalli sub division**

Bill Received No. Dated Divisional / Sub Divisional Cash Book Voucher No..... Dated.....

Work Code: 008-15-000034

Schedule Docket No. Head of Account: P. 1771 Est.Cost:30.00 Lakhs D.R.No. :

Name of Work (as per sanctioned estimate: **Emergency works in ward no. 08 Kodigehalli sub division.**

Name of Contractor and Full Address: **Narayanaswamy R., #35/2, Srinivasanilaya, Geddalahalli, RMV IInd Stage, Bangalore-560 094.**

Reference to Agreement No.BBMP/EE/BTP/WO/49/2018-19 23/10/18 Date: 19.07.2018

Certified that the measurements were taken by me on and recorded of Pages 357326 to 361/2 of measurement Book No.**3574/2017-18** and that the work is satisfactorily executed.

R. Narayanaswamy
Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 23/10/18 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	Total Rs. 2821844-00
2)	Deduct amount to be held in reserve being .....percent Rs.....	
3)	" Balance	
4)	Deduct Payment:	
a)	Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	Ist & part Amount 10,25,734-00 2nd & part Rs: 17.96.110-00
b)	Payments Now made: cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	IT - 17961-00 Cess - 17961-00 CBF - 1796-00 LR - 21814-00 CGST - 16037-00 SGST - 16037-00 Fine 1700-0
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	Adjn. 93306-00
7)	Net amount due to or from Contractor unadjustments items.	Cheque Total amount adjusted - 17.02,804-00
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	

R. Narayanaswamy
Contractor's Signature

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

Witness
1.
2.

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....
Initials of Officer making payment

Stamp

(For use in the Office)

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 17-96,110-00
ಮಾಡಿ ಮಾಡಿದ ಮೊತ್ತ ರೂ. 93306-
ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 17-02804-
ರೂ: Seventeen-Lakh-[illegible] two thousand eight hundred four only.
ಮುಖಾಂತರ ನಿಡಲಾಗಿದೆ

ಲೆಕ್ಕಾಧೀಕ್ಷಕರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೃ. ಪ. ಮು. ಪಾ 11/03

Executive Engineer 20/03
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೃ. ಪ. ಮು. ಪಾ

Sl. No.	Items grouped under sub-Heads and Sub-Works of the Estimate	Unit	Previous Mea Qty.
1	KSRB 7.11 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, wei 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar.using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality. (P.No. 33, I.No. 7.11.2 of PWD SR 2015-16)	Sqm	18.21
2	KSRB 7.14 : Providing, fabricating, assembling and fixing in position aluminium partitions using sections in combination of plain, single grove and double grove as per requirements for the frames of overall size 101.6mm x 44.45mm, 3.18mm.thick having section weight, plain sections 2.40kg/m single grove section 2.541kg/m. and double grovesection 2.683 kg/m and bottom 46 kg/m; aluminium louvres of size 77.6mmx27.6mm 1.7mm. thick section weight 0.483kg/m; bottom portions provided with 12mm. thick prelaminated sheet both side of approved colour lamination exterior grade; aluminium sections of mat finish or glossy finish using section, spacing of vertical member shall not exceed 0.6 m. c to c; sections are cut to the required lengths, joints mitered and corners grinded subdividing frames tennoned and rivetted to the frames, the assembled frame should be stiffened with corner angles stripped and fixed with screws, rawl plugs and teak wood gutties to R.C.C.columns or masonry on sides, R.C.C. lintels or beams at top and floor at bottom, including cutting chistling and making good with cement mortar to match the surface, providing and fixing bottom panel filled with the materials to a height of 0.9m. from floor level; and 5.5mm. thick plain glass for middle portion viz., 0.9m. to 2.13 m. and top panel with lower sections, the glass and panels fitted with glazing clips of 19mmx17.3mm. with thickness of 0.9mm. weight 0.124kg/m; aluminium sections pre-treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherence of mortars or any other sticky materials; vertical members embedded in the flooring by making suitable size holes and fixing with cement mortar, with necessary opening for fixing of doors of standard size (excluding cost of door opening) All the frame should be throughly cleaned free from rust, scale or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality. ((P.No.35/I.No. 7.14.2 of CSR 2015-16)	Sq	70.02
3	KSRB 7.11 : Providing and fixing in position aluminium windows and KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred cornersgrinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherance of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides. beams and flooring in bottom. including cutting, chistling and making good with cement mortar to match the surface; all the frames throughly cleaned free from rust, scale, or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.. (P.No. 33, I.No. 7.17.2)	S	11.88
4	Grandee Main desk (As per approved data Rate)		1.00
5	Grandee-2 doors+3 drawers (As per approved data Rate)		1.00
6	High back net Chair (As per approved data Rate)		2.00
7	High back Chair (Normal)		5.00
8	Plastic chair		5.00
9	Visitor Chair		5.00

	Unit	Previous Measurement			Present Measurement			Total Upto Date		Remarks
		Qty.	Cost		Qty.	Rate Rs. P.	Amount	Qty	Cost	
gs with wei op and outer m wall ality of hutters ing the d fixed k wood r.using r grade	Sqm	18.21	83261-00 4572.25		-	4572.25	-	18.21	83261- 4572.25	
tions in .6mm x m. and m. thick pproved acing of red and ould be umns or ng good neight of anel with n. weight tion, and nembers ening for aned free e as per polyester	Sq	70.02	359486-00 5134.05		-	5134.05	-	70.02	359486- 5134.05	
abricating, ish, outer al section 3.00mm, or central thickness e shutters providing olts, lock, ns treated s for non- strips and flooring in he frames machinery e polyester	S	11.88	82138-00 6914.00		-	6914.00	-	11.88	82138- 6914.00	
		1.00	23627.39		-	23627.39	-	1.00	23627.39	
		1.00	19926.86 14453		-	19926.86	-	1.00	19926.86	
		2.00	7226.86 14458		-	7226.86	-	2.00	7226.86 14453	
		6.00	6992.82 41956		-	6992.82	-	6.00	6992.82 41956	
		25.00	764.04 19101		-	764.04	-	25.00	764.04 19101	
		6.00	4108.79 24653		-	4108.76	-	6.00	4108.79 24653	

10	Almirah	No	12.00	
11	Medium size Table	No	7.00	
12	Computer Table	No	2.00	
13	Writing Table mobile pedastal (As per approved data rate)	No	1.00	
14	Doble battery UPS	No	1.00	
15	CCTV Camera with all accessories	No	1.00	
16	30 inch T V of approved make with all accessories	No	1.00	
17	Earthwork excavation for foundtion of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications Specification No.KBS 2.1(b)/2.3.5(P-5, It,-2.3)	Cum	-	
18	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth including cost of all materials, labour, HOM of machienry, curing complete as per specifications. Specification No.KBS 4.1, 4.2 (P-12, It.4.3)	Cu	-	
19	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m, apart in each course including cost of materials, labour, curing complete as per specifications. (P-25, It5.6)	Cu	-	
20	Providing and constructing granite / trap / basalt size stone masonry in Basement cement mortar 1:6 stone Chistle dressed in courses not less than 15 cms high, bond stones at two m, apart in each course including cost of materials, labour, curing complete as per specifications. (P-26, It5.9)	Cu	-	
21	KSRB 4-2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates 0.459 chm, with superplastisiser @ 3 lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms, thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attched plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1, 4.6(P-13, It.4.11)	Cu	-	
22	Filling available excavated earth (excluding rock) in sides of foundation upto plinth in layers not exceeding 20 cms in depth compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specification (P-6 I No. 2.10)	C	-	
23	KSRB 5-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P-27, It.5.27)	S	-	
24	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6. (P-14, It.4.197)	S	-	
25	KSRB 4.9.2:Providing T.M.T Steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastages shall not be measured and paid) cost of materials, labour, HOM of machienry complete as per specifications. Specification No.KBS 4.6.3 (P-19, It.4.46)		-	
26	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P-15, It.4.31)		-	
27	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P-16, It.4.37)		-	
28	KSRB 9.4-2 : Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 (P-51, It.9.11)		-	

	No	12.00	8793.76	105525-	-	8793.76	-	-	12.00	8793.76	105525-
	No	7.00	11544.50	80812-	-	11544.50	-	-	7.00	11544.50	80812-
	No	2.00	8396.00	16792-	-	8396.00	-	-	2.00	8396.00	16792-
	No	1.00	28064.68	28065-	-	28064.68	-	-	1.00	28064.68	
	No	1.00	47227.50	47228-	-	47227.50	-	-	1.00	47227.50	
	No	1.00	54574.00	54574-	-	54574.00	-	-	1.00	54574.00	
	No	1.00	24138.50	24139-	-	24138.50	-	-	1.00	24138.50	
pits or bottom 50m,	Cum	-	-	62.51	198.02	12378		62.51		12378	
0 kgs, 7 cum plinth ication	Cum	-	-	18.94	5223.05	98925		18.94		98925	
stone cluding	Cu	-	-	6.01 13.45	4259.65	25600- 57292		6.01 13.45		25600- 57292	
stone ng cost	Cu	-	-	3.69	5052.84	18645		3.69		18645	
nent @ regates oncrete for roof olumns, anchor plete as	Cu	-	-	31.17	6384.47	199004		31.17		199004	
20 cms o 1.5m	Cu	-	-	62.51	133.50	8345		62.51		8345	
than 35 of size charges,	S	-	-	179.64	1049.06	188453		179.64		188453	
cement ggregtes .5 cms. inishing, 6. (P-14,	S	-	-	6.12	488.37	2989		6.12		2989	
bending, horing to l not be cification	T	-	-	2.82	61111.59	172335		2.82		172335	
work for nd string 4.31)	S	-	-	202.05	315.94	63836		202.05		63836	
els etc., BS 4.6.2	S	-	-	7.65	292.58	2238		7.65		2238	
r frames, and side fications.	C	-	-	0.24	114177.25	27060 27403-		0.24		27403- 27060	

29	KSRB 9-7.3 :Providing and fixing in position fully panelled Mathi/ Nandi wood shutters for doors, styles and rails of 30mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 (P-52, It.9.29)	Sq	-
30	KSRB 15-3.13: Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. .(P-113, It.15.21)	Sq	-
31	KSRB15-3.11 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. .(P-113, It.15.19)	Sq	-
32	KSRB 15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. .(P-122, It.15.33)	Sq	-
33	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. .(P-113, It.15.17)	Sq	-
34	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications..(P-116, It.15.49.1)	Sq	-
35	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 117, I.No. 15.53.2 of SR 2015-16).	Sq	-
36	KSRB 15-17.1 : Applying priming coat over new wood surface and / or wood based surface with white lead paint priming including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.(P-126, It.15.55)	Sq	-
37	KSRB 15-17.6:Providing and applying painting two coats (excluding priming coat) on new wood surface and/or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. - do -(P-126, It.15.60.1)	Sq	-
38	Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special adhesive for flooring and skirting and jointed with neat cement slurry mixed with pigment match shade of tiles including providing spacers at required interval and removing stains etc, complete as per specification (P.No.107, I.No.14.43)	Sq	-
39	KSRB 10.3:Providing and laying integral cement based waterproofing treatment including preparation of surfaceas requried for treatment of roofs, balconies, terraces etc, consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietory water proofing compound conforming to IS 2645 over the RCC Slab after cleaning the surface before treatment. (b)Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietory water proofing compound confirming to IS 2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietory water proofing compound to requried slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with including cost of materials, labour complete as per specifications. (P-68, It.10.2)	Sq	-
40	KSRB 8.6-8: Providing and fixing on wall surface 4.0kg/ sq.cm H.D.P.E. rain down water pipes 110 mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications..(P-82, It.8.19)	Sq	-
41	Providing Fixtures, Door Lock	No	-
42	Handles powder coated	No	-
43	Hinges 5" Heavey duty	No	-
44	Tower bolt 300 mm long	No	-
45	KSRRB M200-15.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.B. Rubble stone masonry in cement mortar. MORTH Specification No. 202 (P-137, It,-18.27)	Cu	-
46	Earthwork excavation for foundtion of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications Specification No.KBS 2.1(b)/2.3.5(P-5, It,-2.3)	Cu	-

rails of nels of cluding	Sqr	-	-	6.30	**4148.40**	**26135**	6.30	26135
clu ng cost of	Sqr	-	-	62.16	**203.58**	**12655**	62.16	12655
sonry & moving	Sq	-	-	142.35	**246.97**	**35156**	142.35	35156
, curing	Sq	-	-	204.51	**26.70**	**5460**	204.51	5460
nasonry ffolding,	Sq	-	-	114.45	**209.14**	**23936**	114.45	23936
nd and ee from cost of	Sq	-	-	204.51	**73.42**	**15015**	204.51	15015
pproved d loose e as per	Sq	-	-	114.45	**87.89**	**10059**	114.45	10059
ad paint er, sand .(P-126,	Sq	-	-	12.60	**34.49**	**435**	12.60	435
e and/or d foreign 5.60.1)	Sq	-	-	12.60	**90.11**	**1135**	12.60	1135
colour of d jointed d interval	Sq	-	-	57.93 58.66	**1277.12**	73984 **74916**	57.93 58.66	73984 74916
ration of Applying proofing (b)Laying ixed with admixed o 300mm a second . (P-68,	Sq	-	-	54.45. 55.27	**954.50**	51973- **52755**	54.45. 55.27	51973- 52755
outer dia mps, wall	Sq	-	-	6.80	**530.65**	**3608**	6.80	3608
	N	-	-	2.00	**420.85**	**842**	2.00	842
	N	-	-	2.00	**58.77**	**118**	2.00	118
	N	-	-	10.00	**38.83**	**388**	10.00	388
	N	-	-	2.00	**121.74**	**243**	2.00	243
structure wherever erviceable asonry in	C	-	-	9.00	**258.09**	**2323**	9.00	2323
r in pits or he bottom upto 50m,	C	-	-	84.60	**198.02**	**16752**	84.60	16752

47	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix M10 1:4:8 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth including cost of all materials, labour, HOM of machienry, curing complete as per specifications. Specification No.KBS 4.1, 4.2 (P-12, It.4.3)	Cum	-
48	KSRB 4-2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates 0.459 chm, with superplastisiser @ 3 lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms, thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attched plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1, 4.6(P-13, It.4.11)	Sqm	-
49	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (P-15, It.4.28)	Sqr	-
50	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P-16, It.4.32)	Sq	-
51	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m, apart in each course including cost of materials, labour, curing complete as per specifications. (P-22, It5.6)	Cu	-
52	Providing and constructing granite / trap / basalt size stone masonry in Basement cement mortar 1:6 stone Chistle dressed in courses not less than 15 cms high, bond stones at two m, apart in each course including cost of materials, labour, curing complete as per specifications. (P-23, It5.9)	Cu	-
53	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P-112, I:t5.3)	Sq	-
54	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 M10 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P-12, I:t4.7)	Cu	-
55	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P-12, I:t4.5)	C	-
56	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, and beams retaining walls, return walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6. (P-13, It.4.13)	C	-
57	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs. Specification No. KBS 4.6.2(P-15, It.4.29)		-
58	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs. Specification No. KBS 4.6.2(P-15, It.4.29)		-
59	KSRB 4.9.2:Providing T.M.T Steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastages shall not be measured and paid) cost of materials, labour, HOM of machienry complete as per specifications. Specification No.KBS 4.6.3 (P-19, It.4.46)		-
60	KSRB 15-3.13: Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. .(P-113, It.15.21)		-

@ 180 @ 0.57 plinth cation	Cum	-	-	27.24 27.85	5223.05	142276 – 145462	27.24 27.85	142276 – 145462
ent @ egates ncrete or roof lumns, anchor lete as	Sqm	-	-	2.14	6384.47	13663	2.14	13663
ork for as per	Sqr	-	-	5.60	251.42	1408	5.60	1408
st and cations.	Sqr	-	-	12.88	394.93	5087	12.88	5087
6 stone cluding	Cu	-	-	19.50	4259.65	83063	19.50	83063
6 stone ing cost	Cu	-	-	5.06	5052.84	25567	5.06	25567
oints to (P-112,	Sq	-	-	22.50	102.35	2303	22.50	2303
ment @ egtes @ ndation, fications.	Cu	-	-	1.12	5656.91	6336	1.12	6336
300kgs, 0.43cum, in layers s, labour,	Cu	-	-	18.29 20.73	6288.44	115016 – 130359	18.29 20.73	115016 – 130359
ement @ egates @ crete laid se, lintles, rs, posts, ills, fillets g cost of	C	-	-	3.10	6537.99	20268	3.10	20268
n work for als, labour 5 mtrs.	S	-	-	7.37	278.12	2050	7.37	2050
m work for als, labour 5 mtrs.	S	-	-	15.48	600.73	9299	15.48	9299
, bending, nchoring to hall not be pecification		-	-	0.31	61111.55	18945	0.31	18945
g including ding cost of		-	-	15.48	203.58	3151	15.48	3151

61	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications..(P-113, It.15.17)	Sq	-
62	KSRB 15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. .(P-122, It.15.33)	Sq	-
63	Providing 12mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. .(P-97, It.15.11)	Sq	-
64	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications..(P-116, It.15.49.1)	Sq	-
65	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 117, I.No. 15.53.2 of SR 2015-16).	Sq	-
66	"Supplying and fixing pressed steel window frame of size 100 x 50mm manufactured from 1.25 mm thick carbon steel or imported steel strips with neat mitred joints at 900degree for window openings and shall be suitable to fix M.S. grills as per design and drawings using 12mm dia rods at 100mm Centre to Centre horizontally and two members of M.S flats of 6mmx40mm size at 150mm apart, welded into a frame of 6mmx40mm size M.S. flats with 16mm size lugs, and 8 Nos. of 100mm size hinges, 4 Nos of Butt Stay pins and 4 Nos. Tower bolts and shutters half panelled and hallf glazed with shutters made out of seasoned honne wood, styles of 30mm thick and 100mm width and rails of 30mm thick and 100mm width and using 4mm thick pin headed glass and panel, filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be rot proof vermin proof, heat resistant guaranteed against shrinkage, warp age and such other defects for a period of 3 years.This shall be as per approved drawing, specification and direction including cost of conveyance, manufacturing painting with 2 coats enamel paint over one coat of primer, cost of labour for all items of work, machinery, equipment and all other incidental charges with all lead, lift loading and unloading etc., complete. The Hollow portion of the frame to be filled with cement concrete 1:2:4." (P-40, It.7.27)		-
67	KSRB 11.5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (Pg. 77 - I. No. 12.5)		-
68	Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick cement mortar 1:3 mix flush pointing with white cement using colour pigment including cost of materials labour curing complete as per specification (P-106' 14.36.1)		-
69	KSRB 14-17.2: Providing skirting, dado, rises of steps with colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No. KBS 14.16, 14.17..(P-115, It.14.41)		-
70	KSRB 13-6.2-1 : Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.2/13.3.(P-96, It.13.26.2)		-
71	KSRB 11-11.3: Providing and fixing white vitreous china clay flat back wash basin size 550x400mm with a pair of 15mm C.P. brass pillar taps with C.I/M.S. brackets, 32mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11.(P-82, It.12.25)		-
72	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete. (concealed work including cutting chases and good the walls etc.,)20mm nominal OD Pipes(P-104, It.13.86.2)		-
73	"SOLID PVC DOOR FRAME Providing & fixing factory made PVC door frame of size 50x47 mm with a wal thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at comers & jointed 2 nos o 150mm long brackets of 15x15mm M.S. Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 guage. The door frame to be fixed to the wall using M.S. screws of 65/80mm size complete as per manufactures specification & direction of Engineer-in-charge. (P-57, It.9.84)		-

masonry affolding,	So	-	-	12.14	209.14	2539	12.14	2539
ur, curing	So	-	-	12.14	26.70	324	12.14	324
rounding materials,	So	-	-			0	0.00	0
rand and free from h, cost of	S	-	-	75.00	159.08	11931	75.00	11931
approved and loose ete as per	S	-	-	87.14	87.89	7659	87.14	7659
ick carbon itable to fix ly and two e M.S. flats r bolts and m thick and anel, filling ter shall be for a period onveyance, ms of work, mplete. The	S	-	-	9.36	4227.39	39568	9.36	39568
e) with black tern (all are ps, overflow fittings and erials, labour		-	-	2.00	5541.21	11082	2.00	11082
laid on a bed uding cost of		-	-	7.98	970.07	7741	7.98	7741
thick cement ugh plastered size including 5, It.14.41)		-	-	15.33	1089.11	16696	15.33	16696
nominal bore specifications.		-	-	4.00	175.77	703	4.00	703
with a pair of rn, painting of t of materials,		-	-	2.00	3957.06	7914	2.00	7914
having thermal fixing the pipe solvent cement concealed work		-	-	40.00	233.62	9345	40.00	9345
mm with a wall ointed 2 nos of 19x19mm M.S. ize complete as		-	-	2.94	579.60	1704	2.94	1704

74	"SOLID PANEL PRELAM PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam prelim Paneled door shutters made from M.S. Tube of 19 x 19 mm, 19 for styles and 15x15mm for top & bottom rails, covered with heat moulded prelaminated PVC 'C' channel of 5mm thick sheet & 30x50mm wide to form styles & 5mm thick & 75mm wide prelaminated PVC sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide cross PVC sheet as gap insert for top rail & bottom rail , paneling of 5mm thick PVC sheet prelaminated on either side fitted in the M.S. Frame, sealed to the styles & rails with PVC designer beading on either side & joined together with solvent cement adhesive etc., complete as per manufactures specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75m.m Aluminium hinges. --do – with both side prelim(P-58, It.9.85.1)	Sq	-
75	Providing and fixing 20 cm thick pre cast reinforced concrete slab as per design and drawing material cost, transportation, hire charges of machinery complete with all lead and lift conveyance charges labour charges inclusive of cost of all materials (Data Rate)	Sq	-
76	Providing and fixing 10 cm thick pre cast reinforced concrete slab as per design and drawing material cost, transportation, hire charges of machinery complete with all lead and lift conveyance charges labour charges inclusive of cost of all materialsIt.(Data Rate)	Sq	-
77	KSRB 7.16 : Providing, fabricating, assembling and fixing in position aluminium shutters to the existing door frame in the partition using 47.62x44.45mm section thickness 3.18mm, weight 1.505kg/m for vertical frame; 47.62x44.45 thickness of 3mm, weight 1.42kg/m for top section, 49.91mmx44.45mm with wall thickness 3mm, weight 1.495kg/ m for central rail; and 114.3mmx44.45mm thickness 3.18mm, weight 2.646kg/m for bottom rail; aluminium sections and cut to length joint metred and corners grinded, the bottom rail and top rail hinged or pivoted, opening arrangements including providing and fixing standard approved accessories, such as aluminium handles, tower bolts, lock, pivots: hinges P.V.C. or rubber gasket, 12mm prelaminated sheets (Novopan) exterior grade of approved colour both sides same colour for bottom panel of maximum height 0.90m and 5.5mm thick plain glass for top panel (Novopan) and glass fixed with glazed clips 19mmx17.3mmx11mm, 0.9mm thick, weight 0.124kg/m; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherance of mortars or any other sticky materials, including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. using aluminium section anodized to 12 - 15 microns.. (P-33, It.7.16)	Sq	-
78	Groove cutting in wall supplying ..... dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc, and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduti wherever necessary [(P-2, I-3]	M	-
79	Supplying heavey guage PVC conduit pipe.... Dia confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick wall and cement plastering, damaged portion using heavey guage saddles at an interval of 700 mm using WF screws. (P-2, I-1)	M	-
80	Supplying and Flush mounting teak wooden box without front plank made of not less than 12mm thick wood after due groove cutting, necessary masonary patch work complete. (P-3 I-6)	No	-
81	Supplying and wiring adopting loop system in existing PVC conduit/casing caping using copper PVC insulated multi strand 2x1.5 Sqmm copper wire with 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shallbe terminated with sufficient loose length in a wood/PVC round block complete for each outlet. (P-05 I-2.1 SR 2014-15)	M	-
82	Supplying and fixing of backlite D.P/Socket/switch with/without neon indicator over existing wood board or flush mounting in plastic plates (P-6, I-1-14)	No	-
83	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multistrand copper conductor single core cable in open or concealed system of wiring (P-9, I-20)	M	-
84	Supply patty type fluorescent tube light fitting of 4'-36/40 watts fluorescent tube fitting, made out of M.S.Sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, starter, locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC supply including fluorescent tube (P-20, I-4.5)SR 2014-15	No	-
85	Supplying, fixing, PBBC bakelite straight or slant batten holder and wiring within 60w/230volts lamps (P-20 I-4.2)SR 2014-15	No	-
	Total		

Certificate

1 Certified that the above work done satisfactory and no materials issued from departmentally

prelim m rails, styles & m thick sheet ding on ation & th side	Sc	-	-	2.94	4440.98	**13056**	2.94	13056
al cost, charges	Sq	-	-	9.00	4620.73	**41587**	9.00	41587
al cost, charges	Sq	-	-	22.50	1865.75	**41979**	22.50	41979
ng door frame; s 3mm, om rail; nged or minium exterior m thick m thick, rmation, cost of	Sq	-	-	5.67	4304.15	**24405**	5.67	24405
s, metal he brick	M	-	-	60.00	45.13	**2708**	60.00	2708
n boxes, e or rawl terval of	M	-	-	90.00	38.83	**3495**	90.00	3495
od after	N	-	-	10.00	91.31	**913**	10.00	913
nsulated existing od/PVC	M	-	-	6.00	257.13	**1543**	6.00	1543
or flush	N	-	-	1.00	152.18	**152**	1.00	152
or single	M	-	-	30.00	15.74	**472**	30.00	472
neet and e brass ncluding	N	-	-	3.00	620.25	**1861**	3.00	1861
(P-20 l-	N	-	-	6.00	92.36	**554**	6.00	554
Total						**1850324**		**2112330**

Rs 10,25,734-

Rs 17,96,110-

Rs: 28,21,844-

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.